

Impact of androgens and different types of anti-androgens on the sexual reproduction of *Brachionus calyciflorus*

Several studies have shown that androgenic and anti-androgenic substances have an impact on the sexual reproduction of rotifers. However, results from different authors sometimes differ; the presence of food in experimental media definitely interferes with the impacts observed. Moreover, if most androgens and anti-androgens depress sexual reproduction of the animals some seem, on the contrary, to increase the production resting eggs. In order to improve our understanding of this type of molecules that are found in many aquatic environments as a result of the general contamination of the biosphere by xenobiotics, we improved the testing protocol by dissociating the feeding and the exposition to the tested substances. We tested the impact of testosterone, fenitrothion, flutamide and cyproterone acetate on the sexual reproduction of rotifers, but also on the population of individuals hatched from resting eggs produced by exposed mothers.